

Title (en)  
A fluid injection device

Title (de)  
Flüssigkeitseinspritzvorrichtung

Title (fr)  
Dispositif d'injection de fluide

Publication  
**EP 2511516 A1 20121017 (EN)**

Application  
**EP 12155896 A 20120217**

Priority  
• EP 11162618 A 20110415  
• EP 12155896 A 20120217

Abstract (en)  
A high pressure fluid injection device (2) for a common rail system for a large internal combustion engine comprises a first connection element (7) for supplying high pressure fluid provided by a common rail system to the fluid injector (4) and at least a second connection element (3) for supplying a low pressure fluid to the fluid injector. The fluid injection device includes a collector element (5) connectable to the fluid injector (4), whereby the collector element contains the second connection element (3) and the third connection element (13) and the fluid injector (4) is in operation engaged with the collector element (5) to provide a fluid passage (6,16, 26, 36) for the low pressure fluid.

IPC 8 full level  
**F02M 55/00** (2006.01); **F02M 47/04** (2006.01); **F02M 55/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR)  
**F02M 47/04** (2013.01 - EP); **F02M 53/04** (2013.01 - KR); **F02M 55/005** (2013.01 - EP); **F02M 55/008** (2013.01 - EP); **F02M 55/02** (2013.01 - EP); **F02M 61/16** (2013.01 - KR); **F02M 63/02** (2013.01 - KR); **F02M 2200/85** (2013.01 - EP)

Citation (search report)  
• [X] US 5460329 A 19951024 - STURMAN ODED E [US]  
• [A] GB 2351772 A 20010110 - CATERPILLAR INC [US]  
• [A] WO 0034646 A1 20000615 - CATERPILLAR INC [US]  
• [A] US 6161770 A 20001219 - STURMAN ODED E [US]

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EP3181889A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2511516 A1 20121017; EP 2511516 B1 20150415; EP 2511516 B8 20150722**; CN 102734025 A 20121017; CN 102734025 B 20160113; JP 2012225344 A 20121115; JP 6083948 B2 20170222; KR 101948936 B1 20190425; KR 20120117638 A 20121024

DOCDB simple family (application)  
**EP 12155896 A 20120217**; CN 201210061877 A 20120309; JP 2012092248 A 20120413; KR 20120022339 A 20120305